FOR MYSORE STATE

AGRICULTURE

~~BOARD OF REVENUE~~ (1954) Department.

Rt. SERIES.

G.O. NO: 1043 /54.

Dated 30 — 6 — '54.

Passed
Suptd.

9/47.
14/7/54

[Despatch Abstract.]

Community Projects — South Kanara Area — Block II — Communications — Construction of 6 culverts on the Road from Sornad in Kuriyala to Podbaremarn — Sanctioned by Project executive officer Mangalore — Papers Recorded.

1763.

Ref.C.No.1872/53-B.

Proceedings of the Project Executive Officer, Mangalore,
dated 2-6-1954.
Sri.H.Narasimha.

COMMUNITY PROJECTS - South Kanara - Communications - Road from Sornad to Kuriyala with 6 culverts - Sanctioned.

84213

DIRECTOR OF COMMUNITY PROJECTS & EX-OFFICIO ADDL. SECRETARY TO GOVT. DEVELOPMENT DEPARTMENT
22 JUN 1954

Sanction is accorded to an expenditure not exceeding Rs. (2130/-) two thousand one hundred and eighty only being estimated cost for constructing six (6) culverts on the katcha road from Sornad in Kuriyala village to Podkaremaru, a distance of 2½ miles. The beneficiaries have already formed the road, the estimated cost of which is Rs.3000/- on the understanding that the culverts required for the road will be put up by the Community Project at its own cost. The work is included in the overall programme as item No.40 under katcha roads in Block II. The sanction is again-st theprovision of 100 culverts for Block II in the overall programme. The sanction is counted against the relevant provisions in the overall programme.

The expenditure is debitable to 63.B.C.D.Projects -J. Communications - 1 works.

Project Executive Officer. 17/6

Submitted to the Director of Community Projects, Madras (2 copies) with a copy of the sanctioned estimate.
Copy to Secretary, C.P.A. Rastrapathi Bhawan, New Delhi.
Accountant General, Madras.
Collector of South Kanara.
Asst.Engineer with estimate for draft agreement.
Asst.Project Officer, Mangalore(2 copies)
Accountant.B-Clerk.
Jc/5-6-54.

17/6

2

Ref.C.No.1872/53-B.

Proceedings of the Project Executive Officer, Mangalore, dated 2-6-1954.
Sri.H.Narasimha.

COMMUNITY PROJECTS - South Kanara - Communications - Road from Sornad to Kuriyala with 6 culverts - Sanctioned.

Sanction is accorded to an expenditure not exceeding Rs. (2130/-) two thousand one hundred and eighty only being the estimated cost for constructing six (6) culverts on the katcha road fro. Sornad in Kuriyala village to Poovaramaru, a distance of 2½ miles. The beneficiaries have already formed the road, the estimated cost of which is Rs.300/- on the understanding that the culverts required for the road will be put up by the Community Project at its own cost. The work is included in the overall programme as item No.40 under katcha roads in Block II. The sanction is against the provision of 100 culverts for Block II in the overall programme. The sanction is counted against the relevant provisions in the overall programme.

The expenditure is debitable to 63.B.C.D.Projects -J. Communication - I works.

Project Executive Officer. 17/6.

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Accountant, B-Clerk.
Jc/5-6-54.

17/6

Office of the Asst.Engineer, C.P.,
Mangalore, d/- 7-8-1953.

From

Sri U... Gaffoor, B.E.,
Asst. Engineer, C.P.,
Mangalore.

Sir,

To

The Project Executive Officer,
Mangalore.

.....

No. 257 E dated 7-8-53

Community Projects - Forming a road from Surned to Kuriala.

.....

I herewith enclose an estimate costing Rs. ~~4,000/-~~ 5180/- for forming a road from Surned to Kuriala with 3 Nos. hume pipe culverts of 1'-6" diam. and 3 Nos. culverts of 1'-0" diam for earl[y] sanction.

Asst.Engineer, C.P., Mangalore.
~~EXECUTIVE~~

Encl: 1 Estimate in duplicate.
2 plans.

NR 1/8722/53-B
Forwarded to the Spl Mangalore
for report.

D/ N Dis ..

Reimbursement to the Project

Executive Officer

2. The relinquishment applications received are in respect of road portion only at 2 places, relating to one landlord alone. A narrow right-of way exists at these points, as the cart track is in existence since over 15 years; the Shanbhogue's report is also enclosed. I understand that the Pattadar Dr P. Krishna Rao is in no mood and the transfer of registry has not been effected.

K. G. Murugesan
8.9.53.
Asst Project Officer

Report to accompany the estimate for forming a road from Surnad to Kuriala in Buntwal Sub Taluk.

Rs. ~~4,900/-~~ 5180/-

This estimate provides for reforming a road about 2 miles 1 furlong from Surnad to Kuriala. This is a cart track which is about 3 to 9 feet wide and the gradient is very steep. The estimate comprises of:

1. Road work.
2. Constructing hume pipe culverts of 1'-6" diam. 3 Nos.
3. Constructing proposed culverts of 1'-0" diam hume pipe. Nos.

1. Road work.

Road work provides for earth work excavation for reforming and regrading the existing cart track and widening the same. Provision is made for the removal of stones from the road surface and from the sides. Also provision is made for extra leads and lifts. Lump sum provision is also made for the cutting side drains and other fluctuations.

2. Constructing hume pipe culverts 1'-0" diameter.

Hume pipes are proposed to be fixed at ends on head walls of random rubble masonry in cement mortar 1:4 over a bed of concrete broken stones 1½" size in cement mortar 1:3:6. Rough stone dry packing revetments is proposed on the sides of the road.

3. Constructing Hume pipe culverts of 1'-0" diam. 3 Nos. Rs. 800/-

This estimate provides for the fixing hume pipes of 1'-0" diameter, on head walls of random rubble masonry in cement mortar 1:4 over a bed of concrete broken stones 1½" size in cement mortar 1:3:6 as shown in the plan enclosed. Rough stone dry packing is provided for the revetment on the sides.

Hence the estimate comprises of

1)	Road work.	Rs. 3,000/-
2.	Construction of 1'-6" diam hume pipe culverts - 2 Nos.	1330/- Rs. ~~1,100/-~~
3)	Construction of hume pipe culverts of 1'-0" diam. - 3 Nos.	850/- Rs. ~~800/-~~
		Rs. ~~4,900/-~~ 5180/-

This estimate is prepared as per the directions of the Asst.Project Officer, Mangalore and he may be referred to regarding the necessity for this ~~exkimakx~~.work.

2-8-61

ASST.ENGINEER, C.P., Mangalore.

Encl: 1 estimate in duplicate.
2 plans.

Name of work:- The Proposed widening of the Cart Track from Sarmad to Kurujala in Hangal Taluk

Earth work Calculation Sheet:-

Reach of the existing Cart Track	~~Depth of cutting~~ Distance in feet	Depth of cutting in feet	width of cutting in feet	Quantity in cft	Remarks
From 0/0 to 500'	500'	0'-9"	9'-0"	3375	Hard gravelly soil
From 0/0+500' to 0/1	160'	1'-0"	10'-0"	1600	"
From 0/1 to 0/1+400'	400	1'-0"	10'-0"	4000	"
From 0/1+400' to 0/2	260	1'-0"	10'-0"	2600	"
From 0/2 to 0/3	660	0'-9"	8'-0"	3960	"
From 0/3 to 0/3+440'	440	1'-0"	8'-0"	3520	Mixture of gravel & decomposed rock
From 0/3+440 to 0/4	220	1'-6"	10'-0"	3300	"
From 0/4 to 0/5	660	1'-0"	8'-0"	5280	"
From 0/5 to 0/6	660	1'-0"	9'-0"	5940	Hard gravelly soil
From 0/6 to 0/7	660	1'-6"	8'-0"	7920	"
From 0/7 to 1/0	660	1'-0"	9'-0"	5940	"
From 1/0 to 1/0+440'	440	0'-9"	10'-0"	3300	"
From 1/0+440 to 1/1	220	1'-0"	8'-0"	1760	"
From 1/1 to 1/2	660	1'-6"	12'-0"	11880	"
From 1/2 to 1/3	660	2'-0"	12'-0"	15840	"
From 1/3 to 1/4	660	2'-0"	11'-0"	14520	"
From 1/4 to 5+0'	500'	1'-6"	10'-0"	7500	"
From 1/4+500' to 1/5	160'	1'-0"	8'-0"	1280	"
From 1/5 to 1/6	660'	1'-0"	9'-0"	5940	"
From 1/6 to 1/7	660'	1'-0"	8'-0"	5280	"
From 1/7 to 2/0	660'	1'-0"	8'-0"	5280	"
2/0 to 550'	550'	1'-0"	8'-0"	4400	"
2/0+550 to 2/1	110'	1'-0"	6'-0"	660	"
				112975+12100	
				= 125075 cft	

(P.T.O.)

1) Earthwork excavating & depositing on bank within initial lead & lift complying with Standard Specification No: 208 in hard gravelly soil ——— } 112975 cft or say 113000 cft

2) —— do —— in mixture of gravel & disintegrated rock ——— } 12100 cft or say 12000 cft

3) Extra lead over the initial lead of 10 yds or part thereof ——— } 12100 cft or say 12000 cft

A.R. Gwatkin Jones
Sup. Hungaton
C P Sa Hungaton
5/8/53

DETAILED ESTIMATE. 421,104—17-11-52.

District :- W South Kanara. Taluk :- Mangalore.

Village and Survey Date and cost of original construction

Name and number of work :- The proposed widening & strengthening of the existing Cart Track from Sirsad to Kuriyala Date and cost of last repairs

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity each description of work.
I Earth work in excavation in ordinary soil within initial lead & lift complying with Standard Specification No:20 B. in hard gravelly soil (Details as per Calculation Sheet enclosed)					113000 cft or Say 113 cum	
II ——— do ——— in Weathered granite & disintegrated rock (Details as per Calculation sheet enclosed)					12000 cft or Say 12 cum	
III Extra lead over & initial lead (Details as per Calculation sheet enclosed)					12000 cft or Say 12 cum	
IV Per centage items such as fluctuations in rates etc etc & cutting side drains etc					L.S.	L.S.
V Per petty Supervision & Contingencies					L.S.	L.S.

Rs. 12 cum

Executive Engineer
Sup Mangalore
4/8/53.

Asst. Engr.
7/8/53
Asst. Engrs. Cl.

Name of work:- Re proposed widening & improvement of Cart Track from Surnad to Kurigala in Hangal Taluk.

Abstract Estimate. C.P. No. (1).

Quantity. (1)	Description of work. (2)	Item number in the schedule of rates. (3)	Rate. (4) Rs.	A.	P.	Per (5)	Total. (6) Rs.	A.	P.	Amount. (7) Rs.	A.	P.
I 113000 cft	Earthwork excavating & depositing on bank within initial lead & lift complying with Standard Specification No: 10B. in hard gravelly soil (S.S. No: 15B)		21	6	0	1000 cft	—	—	—	2415	—	—
II 12000 cft	—do— in mixture of gravel & disintegrated rock (S.S. No: 16B)		23	4	0	1000 cft	—	—	—	279	—	—
III 12000 cft	Extra for every additional 10 yds lead or part thereof over the initial lead (S.S. No: 18)		1	2	0	1000 cft	—	—	—	14	—	—
IV L.S.	For unforseen items such as fluctuations in rates etc & cutting side drains etc		—			L.S.	—		—	157	—	—
V L.S.	For petty Supervision & Contingencies					L.S.				135	—	—
	Supervision charges at 5 per cent.											
						Grand total, Estimate	—			3000	—	—

Divisional officer (or other countersigning officer to be named).

Sanctioned for 19 –19 . A. S. Contractor 7/8/53 Asst Engd.

Collector or other sanctioning officer (to be named).

Signature and designation of the officer submitting this estimate. Re-f. Hangal C.P. SR. Hangal 5/8/53

Tahsildar or other officer (to be named).

C.F. 150 (3)—342,006—24-10-51.

District :— South Kanara.

Taluk :— Mangalore.

Village No.

Name of Work No. :— The proposed widening of the existing cart track from Surnad to Kurnjala.

ESTIMATE ABSTRACT.

Budget head

Main head

Sub-head

Amount of estimate Rs 3000/-

Sanction number and date

To be carried out by :— The Villagers.

Name of work:- The ~~proposed widening~~ Formation of existing Cart Track from Surnad to Kuruyala

Abstract Estimate.

Quantity. (1)	Description of work. (2)	Item number in the schedule of rates. (3)	Rate. Rs. A. P. (4)	Per (5)	Total. Rs. A. P. (6)	Amount. Rs. A. P. (7)
	General Abstract					
I	The proposed widening of the existing Cart Track from Surnad to Kuruyala				Rs 3000/-	
II	Construction of the proposed 3 Nos of 1'6" dia Hume pipe road culvert on the Road from Surnad to Kuruyala				Rs 400/-	1330/-
III	Construction of the proposed 3 Nos of 1'0" dia Hume pipe road culvert on the road from Surnad to Kuruyala				Rs 800/-	850/-
	Total				4200/-	5180
	Supervision charges at 5 per cent.					
	Grand total, Estimate				~~4200~~/-	5180

Divisional officer (or other countersigning officer to be named).

Sanctioned for ~~10~~ ~~10~~ (Five thousand one hundred and eighty only) Rs 5180/-

Collector or other sanctioning officer (to be named).

Collector, Kanara

3/13

Signature and designation of the officer submitting this estimate.

Asst. Engineer.

Taluqdar or other officer (to be named).

Specification. G.P. 150 (2)—342,006—24-10-51.

District :— Salt Kanara

Taluk :— Mangalore.

Village No.

Name of Work No. : ~~Proposed~~ The formation of the existing cart track from Surnad to Kuriyala.

ESTIMATE ABSTRACT.

Budget head

Main head

Sub-head

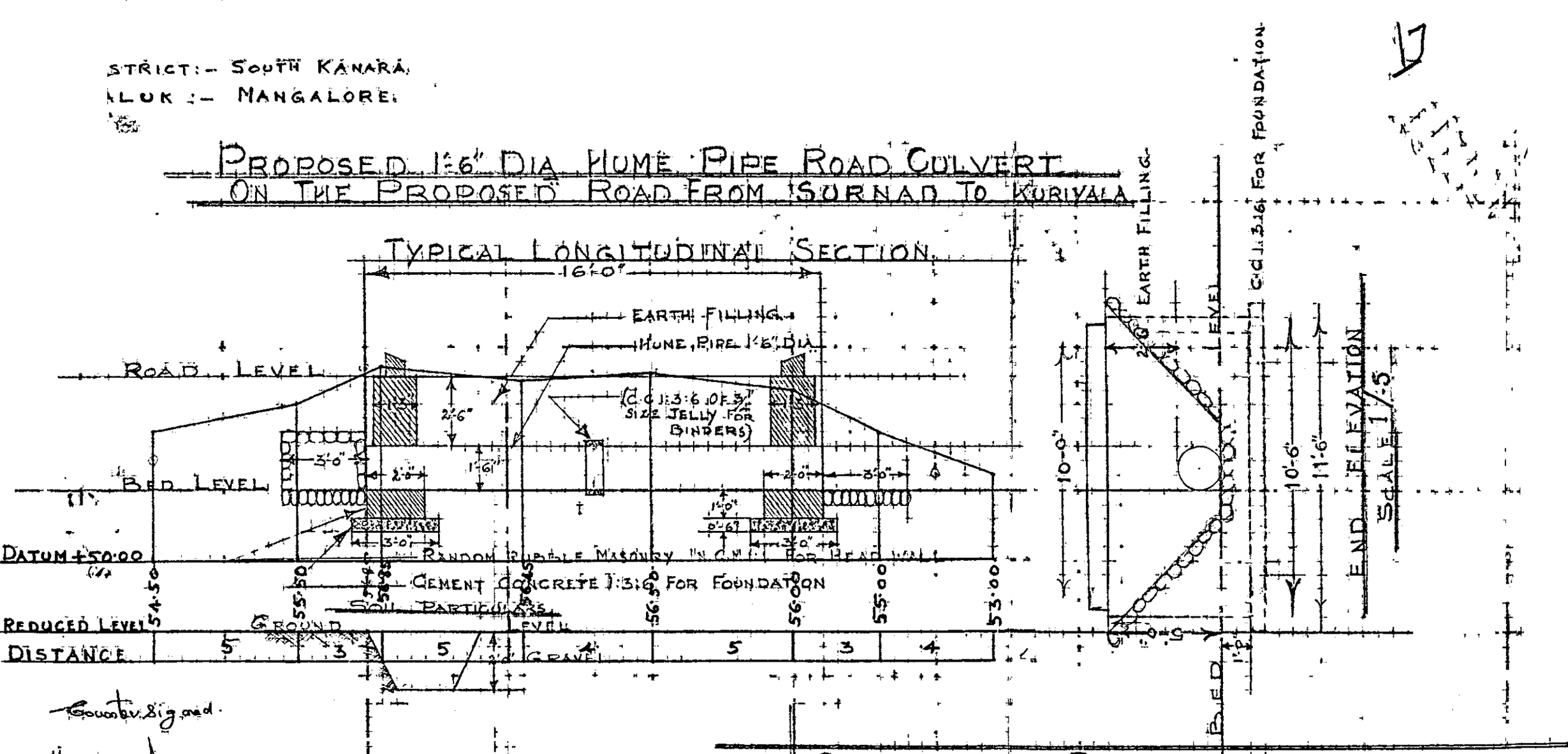
Amount of estimate . Rs 5180 ~~6700~~/—

Sanction number and date

To be carried out by

DISTRICT :- SOUTH KANARA.
TALUK :- MANGALORE.

PROPOSED 1'-6" DIA HUME PIPE ROAD CULVERT
ON THE PROPOSED ROAD FROM SURNAD TO KURIYALA



Countersigned.

Divisional Engineer (H).
Mangalore.

LEVELS WERE TAKEN & RECORDED BY ME ON Page OF L.F Book.
LEVELS REFER TO B.M. ON TOP OF STONE BURRIED ON RIGHT BANK. +50.00.

COMMUNITY PROJECT. SOUTH KANARA.
MANGALORE.

PREPARED BY.

APPROVED BY.

Sub-Mangalore
4/8/53.

DETAILED ESTIMATE. 19

384,300—24-40-51. C.F. 150 (i).

District :- South Kanara. Taluk :- Kangalore.

Village and Survey Date and cost of original construction

Name and number of work :- Construction of the proposed 1'-6" dia Hume pipe road culvert on the road from Sulmad to Kurunjala. Date and cost of last repairs

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
I Earth work excavation for foundation, filling in basement complying with Standard Specification within initial lead & lift in all soils -					L.S.	L.S.
II Cement Concrete ~~1:3:6~~ in hard broken granite stone 1½" Guage :-						
for foundation & head walls for 3 Nos. of culverts at respective reaches -	3x2	7'-6"	3'-0"	0'-6"	104	
L.S. extras - - - -					6	
			Total -		110 cft	or Say 7½ cft
III Supplying & fixing Hume pipes of 1'-6" dia including 1 No. of collar for each culvert.						
Hume pipes - -	1x3	16'-0"	-	-	48 RFt	or Say 48 RFt
IV Cement Concrete 1:3:6 of 3/4" Guage Jelly, for founders at the joints of pipes :-						
Benders - - -	3x1	1'-9"	1'-9"	0'-9"	7	
L.S. extras - - - -					5	
			Total - -		12 cft	
Deduct for pipe opening	3x1	11"x1'-7½"x1'-7½"x0'-9" / 4			3 cft	
Net total less deduction				12 - 3 =	9 cft	or Say 10 cft
V Random rubble masonry in C.M. 1:4.						
for head walls - -	2x3	10'-6"	2'-0"	1'-0"	126	
" "	2x3	10'-6"	1'-3"	4'-0"	315	
for parapet - -	2x3	10'-6"	0'-9"+0'-6" / 2	x 1'-0"	3-9	
L.S. extras -	-	10'-0"	-	- - -	18	
			Total - -		348	
Deduct for pipe openings - -	2x3	11"x1'-7½"x1'-7½" / 4		x 1'-3"	11	
Net total less deduction	- -		5'9"	- 11 =	337	or Say 340 cft
					487	500

(P.T.O.)

C.F. 160 (1)

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
VI Rough stone dry packing for aprons & revetments.						
for revetment at } inlet side — — — }	2×3	3'-0"	3'-6"	1'-0"	63	
for apron at inlet side	1×3	3'-0"	3'-0"	1'-0"	27	
" rear side -	1×3	3'-0"	3'-0"	1'-0"	27	
					33	
	L.S. Nos					
			Total.		1170 cft	or say 1150 cft
VII For unforseen items such as cutting } leading drain etc etc — — — — — }					L.S.	L.S.
VIII For petty Supervision & Contingencies —					L.S.	L.S.

L. A. Compton
7/8/53
Asst Engr CP.

Sub-Magistrate
Sup. Mangalore.
C.P.S.R. Mangalore
4/8/53.

Counter signed.

3/24 Divisional Engineer (H) Mangalore.

8/x/53.

Data sheet to accompany the estimate for Construction of 3 Nos of 1'-6" dia Hume pipe culvert on K-road from Sirnad to Kurugala.

Quantity.	Description of work.	Rate. Rs.	A.	P.	Per.	Amount. Rs.	A.	P.	Total.
III	Supplying & fixing cst Sale of 1'-6" dia Hume pipes including 1 No. of Collar for each culvert :—								
32 Rft.	Cost of H.P as per Schedule of No: 1. of rate Contr. No S.P.I./Rc/. 3169/II/716/50 for 18" more dia ——	6	0	0	Rft.	192	0	0	of S.D. rate
	Conveyance from CBE to Mangalore by rail including packing charges. ——	2	2	0	Rft.	68	0	0	
2 Nos	Cost of Collars —	3	5	6	each	6	11	0	of S.D. rate
32 Rft.	unloading & loading charges per pipe —	0	4	0	Rft.	8	0	0	local rate
	Lead per H.P. with Collars 23 miles M.R from Mangalore Rly. goods shed.								
	Lead for H.P with collars 23 miles M.R from Mangalore.								
	1 Trip carries 6 Nos of 1'-6" dia pipes :-								
	1 Rft. weighs = 95 lbs								
	95 x 48 — = 4560 lbs								
	5 Nos of Collars @ 82 lbs each } = 410								
	Total = 4970 lbs								
	for 1000 lbs for 1 mile M.R — } = 5-2-6								
	∴ 4970 lbs = 25-10-0								
	36 half miles @ 0-3-9/half mile for 1000 lbs — } = 41-14-11								
	Total = 67-8-11								
	for 48 Rft. = 67-8-11					45	0	7	
	∴ for 1 Rft = 45-0-7								
32 Rft	for fixing it at site	0	4	0	Rft.	8	0	0	
	Sundries	——				1	4	5	
		Total				329	0	0	

P.T.O)

22

P.W.D. V-39—17,205—20.1

Data sheet to accompany the estimate for _____

Quantity.	Description of work	Rate	Per.	Amount.	Total
		RS. A. P.		RS. A P.	

for 32 Rft - = 329-0-0

for 1 Rft - = 329-0-0 : 10 4-6 or Say Rs 10-4-6

32

Certified that R-head and other information furnished are correct to the best of my knowledge.

Contractor

Sub Magistrate
C-P-Sc.
4/8/53.

A. A. Engineer
7/8/53
Asst Engineer.

Counter signed.

4/8/53 Divisional Engineer (H)
Manjeshwar.

8/8/53

Name of work:- Construction of the proposed 3 nos of 1'-6" dia Hume's Road culvert on the road from Sarnad to Kerwada

Abstract Estimate.

C.F. 150. (23)

Quantity. (1)	Description of work. (2)	Item number in the schedule of rates. (3)	Rate. Rs. A. P. (4)	Per (5)	Total. Rs. A. P. (6)	Amount. Rs. A. P. (7)
I L.S.	Earth work excavation for foundation filling in basement, complying with Standard Specification No: 20 B. with in initial lead & lift in all soil.				L.S.	100 - -
II 44 C.M. 110	Cement Concrete 1:3:6 in hand broken granite stone 1½" Gauge (Rate as for 1'-0" dia pipes proposed on this road)		121 4 0	100 C.ft.	—	133 - - 44 2 -
III 4 R.R.M.	Supplying & fixing Hume pipes of 1'-6" dia including 1 No of collar for each culvert		As per S. to be paid on actuals		—	494 - -
IV 10 C.M.	Cement Concrete 1:3:6 of 3/4" Gauge Jelly for bedding at joints of pipes (Rate as for 1'-0" dia pipes proposed on this Road)		135 0 0	100 C.ft.	—	14 - -
V ~~300 C.M.~~ 500	Random rubble masonry in C.M. 1:4 (Rate as for 1'-0" dia pipes proposed on this road)		91 0 0	100 C.ft	—	~~1 10 - -~~ 2 7 2 455 - -
VI ~~150 C.M.~~	Rough stone dry packing for aprons & revetments (Rate as per 1'-0" dia H.P's proposed on this Road)		36 0 0	100 C.ft	—	54 - -
VII L.S.	For unforseen items such as cutting & leading drain etc				L.S.	28 - -
VIII L.S.	For petty supervision & Contingencies				L.S.	52 - -

Supervision charges at 5 per cent.

(Rupees one thousand three hundred and Thirty only. (1330/-)

Grand total, Estimate — ~~1400~~ 1330/-

Divisional officer (or other countersigning officer to be named).

Sanctioned for 19 -19

Collector or other sanctioning officer (to be named).

Countersigned
5/2/4 Divisional Engineer (H)
Mayurkhet

Signature and designation of the officer submitting this estimate.

Asst. Engineer
C.P & R. Mangrol
5/8/52

Tahsildar or other officer (to be named).

24

Specification.

C.F. 150 (2)—342,006—24-10-51.

District :- South Kanara

Taluk Mangalore

Village No.

Name of Work No. :- Construction of the proposed 3 Nos of 1'-6" dia Hume pipe road culvert on the road from Surnad to Kirinjale.

ESTIMATE ABSTRACT.

Budget head

Main head

Sub-head

Amount of estimate Rs 1330/- ~~Rs 1400/-~~

Sanction number and date

To be carried out by :- The Community Project Sec. Mangalore

Estimate No. 30/54-55
(C No. 1872/53.B)

Estimate Rs. 3000/-
Earth work -
Culverts ~~Three~~ Two — Rs. ~~2100~~ 1330
Total 1330

Contribution - Rs 3000/-
(Earth work)

Sanction — Rs. ~~2100~~ 1330/-
(Culverts)

~~Sanction~~ Rs (2100/-)
~~(Two thousand, one hundred).~~

Sanctioned Rs. (1330/-)
one thousand three hundred
& thirty only.

Project Executive Officer
S.K.

2.6.54.

DETAILED ESTIMATE. 42|104—17-11-52. C.P. 169 (1).

District :— South Kanara. **Taluk** :— Mangalore.

Village and Survey — Date and cost of original construction 3 Nos 9

Name and number of work :— Construction of 1'-0" dia Hume pipe Road — Date and cost of last repairs

in the Road from Surnad to Kuriyala.

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
I. Earthwork excavation for foundation ~~in soft Soil~~ in all soils including refilling Complying with Standard Specification within initial lead and lift					L.S.	L.S.
II. Cement concrete 1:3:6 in hard broken stone 1½" Size:—						
For foundation of head walls for 3 Nos of culverts at respective reaches	3×2	8'-6" 6'-0"	3'-0"	0'-6"	7'6" 5'4 18 24 75 c.ft	
Extra thickness					9 c.ft	
Total					94 c.ft or Say 90 c.ft	
III. Supplying & fixing Hume pipes of 1'-0" dia including 2 Nos of Collars for each culvert						
Hume pipes	3×18 / 1×3	18'-0"	—	—	54 R/ft	or Say 54 R/ft
IV. Cement Concrete 1:3:6 of ¾" Size Jelly for binders at joints of pipes.						
Binders	3×2	1'-4"	1'-4"	0'-9"	8 c.ft	8
Extra					4 c.ft	4
Total					12 c.ft	12
Deduct for:— pipe opening	3×2	π×1'-4"×1'-6" / 4		× 0'-9"	6 c.ft	
Net total less deduction					12-6 = 6 c.ft	or Say 6 c.ft
V. Random rubble masonry in C.M 1:4:—					90 c.ft	
For Head walls 1st step	3×2	7'-6" 5'-0"	2'-0"	1'-0"	60	
" 2nd step	3×2	7'-0" 4'-6"	1'-3"	2'-6"	84	432
For R.C. parapet portion	3×2	6'-0" 4'-0"	0'-9"+0'-6" / 2	1'-0"	23 4 21	
Extra					4 c.ft	
Total					200 c.ft 25 c.ft	266 270 250 etc
Deduct for:—						
hole opening	3×2	π×1'-2"×1'-2" / 4		× 1'-6"	8 c.ft	or Say.
Net total less deduction					200-8 = 192 c.ft	
					242	
VI. Rough stone dry packing for aprons & revetments						
Revetment for sides of ~~inlet~~ outlet side	2×3	4'-0"+2'-6" / 2	3'-0"	1'-0"	= 5-9	

C.F. 150 (1)

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
B.F.	-	-	-	-	59 ✓	
— do —	1×3	3'-0"	5'-6"	1'-0"	45 ✓	
for apron in front	1×3	3'-0"	2'-6"	1'-0"	23 ✓	
— do in rear	1×3	3'-0"	3'-0"	1'-0"	27 ✓	
Extra					46 ✓	
			Total		200 cft or say 200 cft ✓	
III For reinforcement items					L.S.	L.S. ✓
III For Pelly Superstructure & Cantilevers					L.S.	L.S. ✓

Sub Manager
4/8/53

Contractor's signed.

Divisional Engineer (H)

Manager.

Sl. No. 1.

2 nos.

P.W.D. V-39—17,205—20-1-59

Data sheet to accompany the estimate for Construction of 3 Nos 7 1'-0" dia. Hume pipe culvert on the road from Sarnad to Kunigala – 22 mile.

Quantity.	Description of work	Rate			Per.	Amount.			Total.
		RS.	A.	P.		RS.	A	P.	
1	Earthwork excavation for foundation & filling in basement, complying with Standard Specification, with in initial lead & lift in hard gravelly soil (:+1000 cft								
	S.S. 15 No + ~~extra~~	-		-		21 32	6 1	0	or Say ~~Rs 32-0-0~~ 21-6-0
11	Concrete in hard broken stone 1½" Rings in C.M 1:3:6 :- 100 cft								
100 cft 92 cft	Hard broken stone as per S.S 33c -	23	0	0	100 cft	21 23	2 0	6	
"	Lead for stone at site ½ to 1 mile C.T : 7-0-6 Add 20% for C.T : 1-6-6 Total = 8-7-0	8	7	0	100 cft.	7 8	12 7	2	
46 ~~cft~~	Sand - - - -	2	8	0	"	1 1	2 4	5 0	
	Lead for sand 1 mile to 1½ mile C.T. local stream bed 1 to 1½ mile = 9-6-0 Add 20% — = 1-14-0 Total = 11-4-0	11	4	0	100 cft	5 5	2 10	9 0	
46 10/3 cft	Cement - -	87	8	0	25 cft	53 5	10 8	8 4	
"	Lead for cement from Bangalore to Site 23 miles by road 5 miles = 25-12-6 ~~40 miles half~~ 36 half miles @ 1-0-0 / half mile = 36-0-0 Total - 61-12-6	61	12	6	100 cft	9 10	9 4	7 9	
	Labour								
½ No	Mason 2nd class	2	12	0	each	1	6	0	
5 Nos	Man Kangdaas -	1	8	0	"	7	8	0	
4 Nos	Women "	0	13	0	"	3	4	0	
2 ~~cft~~ 46	Mixing mortar -	4	8	0	100 cft	2	4	6	
	~~Total~~ Sundries					0 121	2 4	11 0	or Say ~~121-4-0~~ 113-0-0
						113	0	0	

P.W D. V-39—17,205—20-[illegible]

Data sheet to accompany the estimate for _____

Quantity.	Description of work.	Rate. Rs.	A.	P	Per.	Amount. Rs.	A.	P.	Total.
III	Supplying & fixing at Site of 1'-0" dia. Hume pipes including 2 Nos. of collars for each culvert								
36 RFt.	Cost of H.P. as per Schedule No. 1 of rate Contract No S.P.1/RC/3169/III/716/50 for	2	12	6	RFt.	100	2	0	P.S.D. rate
	Conveyance from CBE. to Mangalore by rail including packing charges	1	0	0	RFt.	36	0	0	
6 Nos.	Cost of collars —	1	8	0	each	6	0	0	P.S.D. rate
36 RFt.	unloading & loading charges per pipe —	0	3	4	RFt.	7	8	0	Local rate
	Lead for H.P. with Collars 2.3 mile H.R. from Mangalore Rly. Goods shed.								
	1 Trip carries 18 Nos. of 6'-0" length 1'-0" dia pipes								
	1 RFt. weighs = 54 lbs								
	∴ 108 RFt. = 5832 lbs								
	8 Nos. of collars @ 40 lbs per collar Total	320 lbs							
		6152 lbs							
	for 1000 lbs conveyance.								
	for 5 M.M.R. — = 5-2-6								
	∴ 6152 — = 31-11-6								
	36 half miles @ 0-3-9/half mile = 57-14-6								
						88-12-6			
	for 108 RFt = 88-12-6								
	∴ 36 RFt = 29-9-6	—	—			29	9	6	
L.S.	for fixing it at Site —	0	4	0	RFt.	9	0	0	
	Sundries —					1	12	6	
	Total —					190	0	0	✓

For 36 RFt. — = 190-0-0 = 5-4-3 RFt ✓

∴ 1 RFt = 36 or say 5-4-6 RFt

P.W D. V-39—17,205—20-1-33.

Data sheet to accompany the estimate for _____

_____

Quantity.	Description of work.	Rate. Rs.	A.	P.	Per.	Amount. Rs.	A.	P.	Total.
	Cement concrete 1:3:6								
	Jelly for benders at ground								100 Cft.
92 Cft.	Hard broken stone as per S.S. 338	42	0	0	100 Cft.	38	10	3	
"	Lead for stone as above	8	7	0	100 Cft.	7	12	2	
46 Cft.	Sand as above	2	8	0	100 Cft.	1	2	5	
"	Lead for Sand as above	11	4	0	"	5	2	7	
16 Cft.	Cement	87	8	0	25 Cft.	53	10	8	
"	Lead for cement as above	61	12	6	100 Cft.	9	9	7	
	Labour.								
1½ Nos.	Mason 2nd class	2	12	0	each	1	6	0	
5 Nos.	Man Hangdoor	1	8	0	"	7	8	0	
4 Nos.	Woman "	0	13	0	"	3	4	0	
48 Cft.	Mixing mortar	4	8	0	100 Cft.	2	1	1	
	Sundries								135-0-0 or Say 135-00
									130.8.0
	Random rubble masonry in C.M. 1:4: —								
110 Cft.	Rough stone as above	16	0	0	100 Cft.	12	9	7	
"	Lead for Stone as above	8	7	0	"	9	4	6	
36 Cft.	Sand as above	2	8	0	"	0	13	7	
"	Lead for Sand	11	4	0	100 Cft.	3	13	2	
34 Cft.	Cement as above	87	8	0	25 Cft.	29	12	0	
"	Lead for cement as above	61	12	6	100 Cft.	5	4	0	
	Labour								
5 Nos.	Mason 2nd class	2	12	0	each	13	12	0	
4 Nos.	Man Hangdoor	1	8	0	"	6	0	0	
4 Nos.	Woman "	0	13	0	"	3	4	0	91.4.0
34 Cft.	Mixing mortar	4	8	0	100 Cft.	1	8	6	
	Sundries					0	2	6	
									91-4-0 or Say 91-00

P.W.D. V-39—17,205—20-1-52

Data sheet to accompany the estimate for _____

Quantity.	Description of work	Rate Rs.	A.	P.	Per.	Amount. Rs	A	P.	Total
VI	Rough stone dry packing for apron								
	Measurements: — 100 cft.								
110 cft	Rough stone as above	16	0	0	100 cft	17	9	7	
"	Lead for stone above	8	7	0	"	9	4	6	
	Labour.								
1 No	Worker — " "	3	0	0	each	3	0	0	
3 Nos	Mate Mazdoor —	1	8	0	"	4	8	0	
						1	10	0	
2 Nos	Women "	0	13	0	"	0	3	11	
	Sundries					36	4	0	
	Total					36	4	0	36-4-0

Certified that the lead and other information furnished are correct to the best of my knowledge.

Manager Cdp. Mangalore Cdp. Sub. 4/8/53.

L. A. Cleaver 3/8/53

AE-Cl Countersigned.

Divisional Engineer (H) Mangalore. 4/8/53

14/24

Rs 1,17.

Name of work: — Construction of the proposed 3 Nos. of 1'-0" dia Hume Pipe Culvert in the Road from Sadnad to Kurnjala.

Abstract Estimate.

	Quantity. (1)	Description of work. (2)	Item number in the schedule of rates. (3)	Rate. (4) Rs. A. P.	Per (5)	Total. (6) Rs. A. P.	Amount. (7) Rs. A. P.
I	L.S.	Earthwork excavation for foundation in all soils including refilling, Complying with standard specification with all lead & lift			L.S.		75 - - 50
II	~~75~~ 90 Cft.	Cement Concrete 1:3:6 with hard broken stone 1½" Size		121 4 0	100 Cft.		102 109 91
III	3-4 Rft.	Supplying & fixing Hume pipes 1'-0" dia including 2 Nos of Collars for each culvert — paid on actuals.		~~0 3 6~~ be	Rft.		285
IV	6 Cft.	Cement Concrete 1:3:6 of 3/4" Size Jelly for binders at joints of pipes		135 0 0	100 Cft.		8
V	~~270~~ 250 200 Cft.	Random rubble masonry in C.M. 1:4		91 0 0	100 Cft.		227 182 246
VI	200 Cft.	Rough stone dry packing for aprons & revetments		36 0 0	100 Cft.		73
VII	L.S.	For enforcem items such as cutting & leading drain etc				L.S.	20 ~~18~~ ~~12~~ ~~26~~
VIII	L.S.	For petty Supervision & Contingencies				L.S.	71 01

Supervision charges at 5 per cent.

Grand total, Estimate .. — ~~800 00~~ 850/-

Rupees eight hundred and fifty only. (850/-)

Divisional officer (or other countersigning officer to be named).

Sanctioned for 19 -19 .

Signature and designation of the officer submitting this estimate. Asstt Engineer Kurnjala. e.p Sd. 4/8/53.

Collector or other sanctioning officer (to be named).

Tahsildar or other officer (to be named).

Countersigned.

Divisional Engineer (H)
Kurnjala

32

Specification. C.F. 150 (2)—342,006—24-10-51.

District :- South Kanara.

Taluk :- Mangalore.

Estimate No. 30/SU 55
(C No. 1870/53-B)

Village No.

Name of Work No. :- Construction of the footpath 3 Nos of 1'-0" dia Hume pipe culvert on the road from Surnad to Kuriyala

Estimate -
Earth work - Rs. 3000/-
Culverts - Rs. 850/-
Total Rs. 3850/-

ESTIMATE ABSTRACT.

Budget head

Contribution - Rs 3000/-
(Earth work)

Main head

Sanction - Rs. (850/-)

Sub-head

Sanctioned Rs (850/-)

Eight hundred & fifty only

Amount of estimate Rs ~~800~~ 850/-

H Narayana 20.5.54
Project Executive Officer
SEC

Sanction number and date

2 nos
2.6.54.

To be carried out by :- The Community Project Sec. Mangalore

EE

34/1

PUBLIC (R.D.P.VI) DEPARTMENT.

Extracts from the Call Book.

1. Serial No. 100

2. Date of entry in the register. 2/7/55

3. Subject. CPS. S.K. area - PWI II - Comms. Construction of 6 culverts on the road from Sornad in Kunigala of Pothkatawena Sanctioned by the P.E.O. Mymensingh Rp - Rs. 4000

4. Old Current No. 84213 D VI/54

5. No. and date of Govt. Order etc. authorising the entry. G.O.R.P. 1043 Agri dt 30/6/54

6. Date when further action is to be taken. 5/7/55.

7. Number and date of new current. 4674

B
6/7/55

Pub (R O P VII) Deptt. 33

The extract cop: I ante relates to the last letter made with a view to accept the completion report in respect of the construction of 6 culverts on the road from Sonnad in Kurunjala, S.K. project area. It has been recently ordered that residential completion reports relating to civil works need not be sent to Govt. and that a monthly abstract report may be sent instead.

Hence, this may be lodged and added to the disposal at (IV).

12/7/55

12/7/55

12/7/55

E.O No. 10 43
Pub E 30/6/55

Ipos closed MF Agree (D-VI)

[C.No. 84213/54] Sub:- C.P.- South Kanara Area - Block II - Communications - Construction of 6 Culverts on the road from Sornad to Kuriyala - sanctioned estimate.

p:1 c.f. Ref:- From the P.E.O., Mangalore, proceedings Ref:C.No. 1872/53-B. dt/2-6-54.

Please see the proceedings of the P.E.O., Mangalore, at p:1 c.f. He has sanctioned an expenditure of 2180/- at the full estimated cost, for the construction of 6 Hume pipe Culverts on the kutcha road from Sornad in kuriyala village to Podkaremaru - The road, about 2 Miles 1 Furlong in length, is stated by the P.E.O., to have been formed by the beneficiaries at their own cost, which is assessed at Rs 3000/-

The estimate is technically approved by the Divisional Engineer (Highways) Mangalore.

It is stated by the P.E.O., that this work is included in the Overall programme as item No. 40 under Katcha roads in Block II, ~~which~~ which refers to "Extension of cart track from kuriyala to Belare".

The papers may be recorded as a Rt. G.O. with a call book entry for 12 months to watch the completion of the work.

29/6/54 30/6/54

G.O. Rt. No. 1043 dated 30-6-54.

Abstract:- C.P.- South Kanara Area - Block II - Communications - Construction of 6 culverts on the road from Sornad in kuriyala to Podkaremaru - sanctioned by P.E.O. Mangalore - Papers recorded -

30/6/54 Entered S.No 10 Cr. 3 C.B. 12 Months. 30/6/54